

OHIO AGRICULTURAL EXPERIMENT STATION  
Lane Avenue Farm, Columbus, Ohio

Department of Horticulture Mimeograph Series No. 164. January 28, 1958

Staked Tomato Variety Trials - 1957  
Columbus, Ohio

Walter N. Brown

These trials included ten varieties replicated six times and 45 varieties replicated twice. Each of the ten varieties had been included in either the two or six replication trials in 1956. The results of these trials are presented in the accompanying tables.

Footnotes for tables:

- a. Varieties ranked according to early yield of Grade No. 1 fruits.
- b. Figures in parentheses, Columns 3, 4, and 5, are percentages of total early marketable yield, harvested in each grade.
- c. Percentages of total season's marketable yield harvested to August 30.
- d. Columns 9, 10 and 11 are percentages of total season's marketable yield harvested in each grade.
- e. Percentages of culls based on gross early yield.
- f. Percentages of culls based on season's yield

Cultural Information

Seed Sown: In flats in greenhouse April 16, transplanted to 3" Jiffy peat pots April 23-26, 6 replication plots field set May 28 and 2 replication plots set June 4, 1957.

Fertilizer: 1000 lbs/acre of 5-10-10 disked in prior to planting plus one side dressing of 100 lbs/acre of ammonium nitrate applied after first cluster set.

Starter Solution: 3 lbs/50 gal. of 10-52-17 at rate of 1/2 pint per plant.

Spacing: Rows 48" apart with 18" between plants in the row; 20 plants per single rot plot of 30' for yield, randomized and replicated either two or six times.

Date of first harvest: July 25, 1957. Fruits harvested in pink stage.

Grades: Established to evaluate the amount and extent of cracking.  
Grade No. 1 - Crack-free fruits meeting all specifications of U.S. No. 1.  
Grade No. 2 - Cracks less than 1/2" in length, well-healed, otherwise meeting specifications of U.S. No. 1; Grade No. 3 - Cracks longer than 1/2", well-healed and otherwise meeting specifications for U.S. No. 2; Culls - All other fruits not meeting specifications of above three grades.

Sources of Seed

<u>Code</u>	<u>Source</u>
Alex	Dr. L. J. Alexander, Ohio Agr. Exp. Sta., Wooster, Ohio
Asgrow	Associated Seed Growers, New Haven 2, Conn.
Burgess	Burgess Seed & Plant Co., Galesburg, Mich.
Burpee	W. Atlee Burpee & Co., Philadelphia 32 Pa.
Burrell	D. V. Burrell Seed Growers Co., Rocky Ford, Colo
Corneli	Corneli Seed Co., 101 Chateau Ave., St. Louis 2, Mo.
Ferry-Morse	Ferry-Morse Seed Co., P O Box 778, Detroit 31, Mich.
Germain's	Germain's Seed Co., 6400 E. Washington Blvd., Los Angeles 22, Calif.
Gill Bros.	Gill Bros. Seed Co., Montavilla Sta., Portland 20, Ore.
Gowen	Dr. F. A. Gowen, Dept. Hort, Univ. of Nebraska, Lincoln 3, Neb.
Harris	Joseph Harris Co., Inc. Moreton Farm, Rochester, 11, N.Y.
Livingston	Livingston Seed Co., 840 Kinnear Rd., Columbus, Ohio
OAES	W. N. Brown, Ohio Agr. Exp. Sta., Dept. Hort., Columbus 10, Ohio
Peto	Peto Seed Co., P O Box 138, Saticoy, Calif.
Stokes	Francis C. Stokes Co., Vincentown, N.J.
Woodruff	F. H. Woodruff & Sons, Box 1015, Toledo 1, Ohio

STAKED TOMATOES VARIETY TRIALS - 1957  
OAES, COLUMBUS, OHIO

(6 Replications)

Variety <sup>a</sup> and Lot Number		Early Yield to August 30						Season's Yield to September 30					
		Pounds of Marketable Fruit per Acre				Culls (lbs.)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs.)	Average Fruit Size
		No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
9. OSU 3-1 (OAES)	Mass. #37	15,972 (51.5) <sup>c</sup>	11,507 (37.1) <sup>c</sup>	3,521 (11.4) <sup>b</sup>	31,000 (51.2) <sup>c</sup>	436 (1.4) <sup>e</sup>	.309	35,501 (58.7) <sup>d</sup>	18,114 (29.9) <sup>d</sup>	6,897 (11.4) <sup>d</sup>	60,512	2,541 (4.0) <sup>f</sup>	.267
10. OSU 26-5 (OAES)	Mass. #51	14,048 (41.9)	13,068 (39.0)	6,389 (19.1)	33,505 (50.7)	182 (0.5)	.391	35,937 (54.4)	18,513 (28.0)	11,580 (17.6)	66,030	3,049 (4.4)	.307
2. PRITCHARD (Livingston)	2591	12,161 (38.2)	11,108 (34.9)	8,566 (26.9)	31,835 (54.9)	581 (1.8)	.250	23,377 (40.3)	18,695 (32.2)	15,899 (27.5)	57,971	2,686 (4.3)	.223
7. Queens (Stokes)	QPR-54	11,689 (32.2)	14,774 (40.7)	9,873 (27.1)	36,336 (57.5)	254 (0.7)	.300	21,671 (34.3)	23,922 (37.9)	17,605 (27.8)	63,198	2,360 (3.7)	.259
6. Moreton Hybrid (Harris)	1224	7,950 (19.9)	16,154 (40.4)	15,899 (39.7)	40,003 (54.4)	327 (0.8)	.342	16,081 (21.9)	27,116 (36.9)	30,311 (41.2)	73,508	1,924 (2.5)	.307
3. Wisconsin 55 (Woodruff)	44665	5,699 (16.5)	13,104 (37.8)	15,827 (45.7)	34,630 (57.0)	363 (1.1)	.353	10,055 (16.6)	23,341 (38.4)	27,334 (45.0)	60,730	2,360 (3.6)	.324
5. Early Giant Hybrid (Peto)	Trial 57	5,663 (15.5)	14,157 (38.7)	16,807 (45.8)	36,627 (57.4)	363 (0.9)	.363	10,781 (16.9)	22,070 (34.6)	30,928 (48.5)	63,779	3,267 (4.8)	.337
1. Foremost E-21 (Ferry-Morse)	85209	5,009 (14.8)	15,428 (45.5)	13,504 (39.7)	33,941 (56.1)	363 (1.0)	.359	9,728 (16.1)	24,757 (40.9)	26,027 (43.0)	60,612	2,650 (4.1)	.332
8. Long Red Special (OAES)	280-53-1	4,973 (16.5)	11,362 (37.7)	13,830 (45.8)	30,165 (52.7)	472 (1.0)	.318	15,282 (26.7)	21,236 (37.1)	20,727 (36.2)	57,245	3,267 (5.5)	.290
4. Big Early Hybrid (Burpee)	6136	4,029 (10.2)	10,346 (26.3)	24,974 (63.5)	39,349 (56.7)	436 (1.1)	.352	8,422 (12.1)	16,480 (23.7)	44,540 (64.2)	69,442	2,940 (4.0)	.315
LSD @ 5%					5,395						8,723		

STAKED TOMATO VARIETY TRIALS -  
OAFS, Columbus, Ohio 1957

VC - 57 p. 1

(2 Replications)

Variety <sup>a</sup> and Lot Number	Early Yield to August 30						Season's Yield to September 30					
	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
	No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
35. Fireball (Harris) 1363	16,553 <sub>p</sub> (47.0)	13,177 <sub>p</sub> (37.4)	5,481 <sub>p</sub> (15.6)	35,211 <sub>c</sub> (74.4)	508 <sub>e</sub> (1.5)	.210	18,404 <sub>d</sub> (38.9)	16,517 <sub>d</sub> (34.9)	12,414 <sub>d</sub> (26.2)	47,335	1,815 <sub>f</sub> (3.5)	.216
38. Early Wonder (Burgess) Trial-56	13,431 (31.3)	17,896 (41.7)	11,543 (27.0)	42,870 (63.2)	908 (2.0)	.258	19,493 (28.7)	25,483 (37.6)	22,832 (33.7)	67,808	2,251 (3.2)	.249
50. CRT Hybrid (Harris) 1359	12,923 (41.3)	9,728 (31.1)	8,603 (27.6)	31,254 (48.6)	762 (2.4)	.211	32,380 (50.4)	14,702 (22.9)	17,169 (26.7)	64,251	4,029 (5.7)	.194
44. Glamour (Harris) 1364	11,798 (46.8)	11,217 (44.5)	2,214 (8.7)	25,229 (50.3)	908 (3.5)	.269	19,820 (39.5)	21,707 (43.3)	8,640 (17.2)	50,167	3,194 (5.9)	.262
41. Cornell 53-548 Sel (Step 257) (OAFS) NW 53-548-2-17	8,531 (31.8)	11,108 (41.5)	7,150 (26.7)	26,789 (43.3)	944 (3.3)	.266	22,724 (36.7)	24,321 (39.3)	14,847 (24.0)	61,892	3,957 (5.8)	.254
42. Cornell 53-549 Sel (OAFS) NW 53-549-2-19	8,095 (32.1)	10,309 (40.9)	6,788 (27.0)	25,192 (39.0)	1,416 (5.4)	.276	20,255 (31.3)	28,677 (44.4)	15,718 (24.3)	64,650	3,993 (5.8)	.283
15. Mariette No. 1 (Alex) 1953	8,022 (33.8)	10,636 (44.8)	5,082 (21.4)	23,740 (39.2)	581 (2.4)	.232	21,671 (35.8)	23,123 (38.2)	15,754 (26.0)	60,548	2,178 (3.4)	.226

STAKED TOMATO VARIETY TRIALS - 1957  
OAFS, Columbus, Ohio

(2 Replications)

VC - 57p. 2

Variety <sup>a</sup> and Lot Number	Early Yield to August 30						Season's Yield to September 30					
	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
	No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
17. Ohio Red (OAFS) 102-22-12-56	7,224 (23.4)	14,193 (46.1)	9,402 (30.5)	30,819 (45.9)	545 (1.7)	.300	17,424 (26.0)	29,875 (44.5)	19,783 (29.5)	67,082	1,670 (2.4)	.291
49. Trellis Hybrid (Harris) 1328	6,316 (16.7)	7,405 (19.6)	24,031 (63.7)	37,752 (58.2)	1,924 (4.8)	.173	14,230 (21.9)	11,435 (17.6)	39,167 (60.5)	64,832	5,155 (7.3)	.167
47. Trellis 22 (Harris) 1371	5,627 (20.3)	9,257 (33.3)	12,886 (46.4)	27,770 (47.3)	545 (1.9)	.196	15,210 (25.9)	16,335 (27.8)	27,116 (46.3)	58,661	2,650 (4.2)	.193
22. Pearson B (Germans) 5938	5,409 (20.8)	12,814 (49.4)	7,732 (29.8)	25,955 (41.3)	508 (2.0)	.334	18,658 (29.7)	26,681 (42.5)	17,496 (27.8)	62,835	2,287 (3.3)	.290
11. Early Red Chief (Harris) 1315	5,336 (17.3)	9,620 (31.2)	15,899 (51.5)	30,855 (49.1)	1,742 (5.3)	.252	12,415 (19.8)	21,090 (33.6)	29,330 (46.6)	62,835	3,449 (5.3)	.251
55. Clinton Hybrid (Burpee) 6131-54	5,191 (18.9)	6,643 (24.1)	15,681 (57.0)	27,515 (45.9)	1,670 (5.7)	.317	15,536 (25.9)	18,477 (30.8)	25,882 (43.3)	59,895	5,118 (7.6)	.290
16. Marietta No. 3 (Alex) 1955	5,046 (17.5)	12,342 (42.8)	11,471 (39.7)	28,859 (44.9)	980 (3.3)	.305	10,600 (16.5)	23,994 (37.4)	29,621 (46.1)	64,215	1,888 (2.7)	.301

STAKED TOMATO VARIETY TRIALS - 1957  
OATS, Columbus, Ohio

VC - 57, p. 3

(2 Replications)

Variety and Lot Number	Early Yield to August 30						Season's Yield to September 30					
	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
	No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
12. Early Red (OATS) 70-17-2-55	4,501 (33.9)	12,342 (38.2)	15,423 (47.9)	32,271 (49.6)	2,105 (6.1)	.291	2,293 (14.2)	21,163 (32.6)	34,557 (53.1)	65,013	4,056 (5.8)	.280
26. Texas W-24 (Wesley) (OATS) H.W. 117 31-1-1956	4,392 (33.7)	12,923 (40.2)	14,811 (46.1)	32,126 (48.5)	1,379 (4.1)	.310	9,345 (23.8)	25,120 (37.1)	33,215 (42.1)	67,700	2,541 (3.5)	.296
32. Stakecross No. 6 (Stokes) Label 57	4,017 (30.1)	12,115 (37.5)	15,511 (37.6)	31,643 (48.3)	1,111 (3.4)	.312	10,110 (21.5)	21,113 (34.3)	33,115 (34.5)	64,338	1,614 (4.2)	.291
21. Deep Fruited Pearson (Gill Bros.) 6052	4,211 (30.2)	9,874 (27.3)	6,783 (32.5)	20,868 (31.7)	322 (1.1)	.300	18,223 (23.4)	26,753 (43.2)	17,024 (27.4)	62,000	3,102 (6.0)	.297
19. Homestead (Woodruff) 7-518-8	4,175 (32.7)	12,111 (33.1)	15,411 (34.2)	31,717 (48.5)	1,111 (3.4)	.317	9,651 (23.4)	21,115 (34.7)	33,111 (42.5)	64,017	1,742 (2.3)	.312
27. Alamo (Agnew) 5500	4,130 (30.4)	12,662 (50.4)	3,540 (33.2)	20,332 (31.0)	1,111 (3.4)	.270	10,111 (27.2)	23,111 (34.0)	21,115 (35.0)	54,337	2,211 (3.5)	.301
23. Pearson C-65 (Woodruff) 1-4124	4,055 (30.1)	12,072 (32.4)	7,295 (32.5)	23,422 (35.9)	1,111 (3.4)	.334	13,431 (32.1)	26,172 (43.0)	21,630 (34.9)	61,233	1,706 (2.7)	.283

STAKE!

OAFS, Columbus, Ohio

VC - 57 p. 4

(2 Replications)

a Variety and Lot Number	Early Yield to August 30						Season's Yield to September 30					
	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
	No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
53. Giant King (PFTO) Trial 57	4,029 (19.4) <sup>b</sup>	9,692 (46.6) <sup>b</sup>	7,079 (34.0) <sup>b</sup>	20,800 (42.0) <sup>c</sup>	1,053 (3.8) <sup>e</sup>	.334	13,141 (26.5) <sup>d</sup>	20,655 (41.7) <sup>d</sup>	15,754 (31.8) <sup>d</sup>	49,550	6,679 (11.8) <sup>f</sup>	.321
28. Early Bird F <sub>2</sub> (Asgrow) M339	3,884 (13.2)	11,943 (40.7)	13,503 (46.1)	29,330 (42.9)	799 (2.7)	.301	11,180 (16.4)	25,374 (37.1)	31,799 (46.5)	68,353	2,686 (3.7)	.275
14. Nebraska 12 (Gowen, Neb.) 563	3,848 (13.8)	11,035 (39.7)	12,923 (46.5)	27,806 (44.1)	1,597 (5.4)	.274	12,560 (19.9)	24,103 (38.2)	26,354 (41.9)	63,017	3,340 (5.0)	.256
33. Texto 2 (Step 193) (Asgrow) 5621	3,775 (11.2)	15,355 (45.5)	14,593 (43.3)	33,723 (54.7)	218 (0.7)	.307	7,550 (12.2)	24,212 (39.3)	29,912 (48.5)	61,674	799 (1.2)	.295
43. Urbana (Cornell) 3934	3,739 (15.3)	10,527 (43.2)	10,128 (41.5)	24,394 (43.3)	653 (2.7)	.242	8,204 (14.6)	22,542 (40.0)	25,592 (45.4)	56,338	3,812 (6.2)	.223
36. Manalee (Woodruff) 4-68	3,630 (10.5)	11,616 (33.5)	19,421 (56.0)	34,667 (52.9)	1,779 (4.8)	.281	7,369 (11.2)	17,206 (26.3)	40,946 (62.5)	65,522	3,957 (5.7)	.270
20. Homestead FM (Ferry-Morse) D-6415	3,303 (10.8)	11,616 (38.1)	15,573 (51.1)	30,492 (43.6)	799 (2.5)	.307	5,663 (8.1)	21,962 (31.4)	42,289 (60.5)	69,914	2,287 (3.2)	.311

STAKED TOMATO VARIETY TRIALS - 1957  
OAES, Columbus, Ohio

VC - 57 p. 5

(2 Replications)

Variety and Lot Number	Early Yield to August 30						Season's Yield to September 30					
	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size	Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
	No. 1	No. 2	No. 3	Total			No. 1	No. 2	No. 3	Total		
52. Early Hycross (PETO) Trial 57	3,267 (10.1)	6,824 (21.1)	22,216 (68.8)	32,307 (58.5)	980 (3.0)	.254	9,257 (16.8)	12,378 (22.4)	33,578 (60.8)	55,212	3,013 (5.0)	.238
48. Sensation Hybrid (Livingston) 3854	3,194 (12.7)	7,006 (27.9)	14,920 (59.4)	25,120 (38.9)	762 (3.0)	.296	14,702 (22.8)	18,731 (29.0)	31,108 (48.2)	64,541	4,465 (6.4)	.283
25. Texas W-11 (OAES) N.W. 110-30-6-56	3,049 (9.4)	11,471 (35.4)	17,860 (55.2)	32,380 (57.7)	908 (2.6)	.327	6,026 (10.7)	21,453 (38.3)	28,605 (51.0)	56,084	3,521 (10.1)	.336
45. MAT (Ferry-Morse) D5419	3,049 (11.9)	6,062 (23.7)	16,481 (64.4)	25,592 (41.1)	2,360 (8.4)	.255	16,444 (26.4)	13,104 (21.1)	32,670 (52.5)	62,218	7,079 (10.1)	.231
34. Wiltmaster (Asgrow) W-55107	2,795 (9.9)	9,511 (33.7)	15,899 (56.4)	28,205 (42.4)	363 (1.2)	.271	4,973 (7.5)	17,533 (26.3)	44,068 (66.2)	66,574	1,561 (2.2)	.272
54. Burpee Big Boy (Burpee) 6123-56	2,795 (11.8)	9,547 (40.5)	11,253 (47.7)	23,595 (43.7)	1,125 (4.6)	.376	8,458 (15.7)	20,219 (37.5)	25,265 (46.8)	53,942	3,267 (5.3)	.370
46. VAT (Ferry-Morse) D-6111	2,759 (10.4)	10,527 (39.8)	13,177 (49.8)	26,463 (48.2)	1,997 (7.0)	.291	7,805 (14.2)	22,760 (41.5)	24,284 (44.3)	54,849	4,646 (7.8)	.282

## VC - 57 p. 6

VC - 57 p. 6

VC - 57 p. 6



STAKED TOMATO VARIETY TRIALS - 1957  
OAES, Columbus, Ohio

VC - 57 p. 7

(2 Replications)

[illegible]